

ABSTRACT OF THE DISCLOSURE

A collimator device for a nuclear imaging camera has a grid of collimation square holes formed by a plurality of elongated, metal sheets arranged in a grid pattern, and pixellated scintillators individually located in
5 each of the collimation square holes. Each of the metal sheets has evenly spaced slots into which other sheets are inserted. At least a portion of the surfaces of the sheets forming the grid of the collimation square holes is coated with an optically reflecting material coating.